In re Patent Application of:
NGUYEN
Serial No. **Not Yet Assigned**
Filing Date: **Herewith**
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In the Claims:

Claims 1-22 (CANCELLED)

23. (ORIGINAL) A method of forming a rectifier for an alternator comprising the steps of:

securing an insulated conductive substrate within a diode receiving cavity of an integrally formed rectifier body having a ground engaging surface opposite the diode receiving cavity where the ground engaging surface mounts within an alternator and is grounded through an automotive grounding system;

inserting the leads of positive and negative diodes within a terminal connector that interconnects same; and

inserting the interconnected positive and negative diodes within the diode receiving cavity such that negative diodes engage the rectifier body and are grounded thereto and positive diodes engage the insulated conductive substrate and are insulated from the negative diodes and ground engaging surface.

24. (CURRENTLY AMENDED) A method according to Claim 23, and further comprising the step of securing the negative and positive ~~electrodes~~ diodes within the diode receiving cavity by applying solder paste to the rectifier body within the diode receiving cavity and onto the insulated conductive substrate and securing the negative and positive diodes thereto.

25. (ORIGINAL) A method according to Claim 23, and further comprising the step of securing a capacitor within the

diode receiving cavity such that the capacitor is operatively connected to the negative and positive diodes.

26. (ORIGINAL) A method according to Claim 23, and further comprising the step of filling the diode receiving cavity with an epoxy filler after the diodes are secured therein.

27. (ORIGINAL) A method according to Claim 23, and further comprising the step of reflow soldering the rectifier in a solder oven for final assembly.

28. (ORIGINAL) A method according to Claim 23, and further comprising the step of inserting a connector housing over the terminal connector, wherein the connector housing has a connection for receiving a wiring harness and establishing electrical contact with the terminal connector.

29. (ORIGINAL) A method according to Claim 23, and further comprising the step of securing a terminal connector to the insulated conductive substrate and having a terminal for connecting to a wiring harness.

Please add new Claims 30-41 as follows:

30. (NEW) A method of forming a rectifier for an alternator comprising the steps of:

securing an insulated metal conductive substrate within a diode receiving cavity of an integrally formed rectifier body; and

inserting positive and negative diodes within the diode receiving cavity such that negative diodes engage the rectifier body and are grounded thereto and positive diodes engage the insulated metal conductive substrate and are insulated from the negative diodes.

31. (NEW) A method according to claim 30, and further comprising the step of interconnecting leads of positive and negative diodes.

32. (NEW) A method according to Claim 30, and further comprising the step of securing the negative and positive diodes within the diode receiving cavity by applying solder paste to the rectifier body within the diode receiving cavity and onto the insulated metal conductive substrate and securing the negative and positive diodes thereto.

33. (NEW) A method according to Claim 30, and further comprising the step of securing a capacitor within the diode receiving cavity such that the capacitor is operatively connected to the negative and positive diodes.

34. (NEW) A method according to Claim 30, and further comprising the step of filling the diode receiving cavity with an epoxy filler after the diodes are secured therein.

35. (NEW) A method according to Claim 30, and further comprising the step of reflow soldering the rectifier in a solder oven for final assembly.

36. (NEW) A method according to Claim 30, and further comprising the step of securing a terminal connector to the insulated metal conductive substrate and having a terminal for connecting to a wiring harness.

37. (NEW) A method of forming a rectifier for an alternator comprising the steps of:

inserting positive and negative diodes within a diode receiving cavity of an integrally formed rectifier body such that negative diodes engage the rectifier body and are grounded thereto and positive diodes are insulated from the negative diodes and ground engaging surface; and

securing a capacitor within the diode receiving cavity such that the capacitor is operatively connected to the negative and positive diodes.

38. (NEW) A method according to claim 37, and further comprising the step of securing an insulated metal conductive substrate within the diode receiving cavity before inserting the diodes such that positive diodes engage the substrate and are insulated from the negative diodes.

39. (NEW) A method according to Claim 38, and further comprising the step of securing the negative and positive electrodes within the diode receiving cavity by applying solder paste to the rectifier body within the diode receiving

cavity and onto the insulated conductive substrate and securing the negative and positive diodes thereto.

40. A method according to Claim 39, and further comprising the step of filling the diode receiving cavity with an epoxy filler after the diodes are secured therein.

41. A method according to Claim 37, and further comprising the step of reflow soldering the rectifier in a solder oven for final assembly.